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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/903,449	07/11/2001	Chih-Ta Wu	TAIPEI-12	9017
23416	7590	03/09/2005	EXAMINER	
CONNOLLY BOVE LODGE & HUTZ, LLP P O BOX 2207 WILMINGTON, DE 19899			SINGH, SATWANT K	
			ART UNIT	PAPER NUMBER
			2626	

DATE MAILED: 03/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/903,449

Applicant(s)

WU, CHIH-TA

Examiner

Satwant K. Singh

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 11 July 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-5 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-5 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## **DETAILED ACTION**

### ***Claim Objections***

1. Claim 5 is objected to because of the following informalities: The claim states "detect if the papers is normally operated". The claim should state "detect if the papers are normally operated. Appropriate correction is required.

### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1 - 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fujiwara (US 6,270,271).
4. Regarding Claim 1, Fujiwara teaches a printable personal digital assistant (digital assistant 901), comprising: a housing, being composed of an upper and a lower casing parts, providing a paper feed slot (Fig. 1, discharge port 17) (col. 4, lines 5-7); a display screen, being mounted on the housing as a communication interface between the personal digital assistant and a user (Fig. 1, portion 51) (col. 3, lines 20-22); a central processor, being disposed in the housing as a principal operation unit (applications including word processor, chart and calculation, electronic mail (e-mail) and browser are installed in the PDA 50, whereby the PDA 50 is a portable and small information

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processor that is suitable for management of personal schedule, data and others) (col. 3, lines 26-30); a power source device being disposed in the housing for offering an electric power needed by the personal digital assistant (the printer 10 including the information processor such as PDA can be sufficiently driven by a battery or batteries, realizing a practically portable printer having an information processing function) (col. 6, lines 39-42); a printing device (printing mechanism 20), providing a printing mechanism with a plurality of conveying wheels for printing and delivering a sheet of paper (thermal head 15 and the platen roller 14); and a paper feed device (pick-up roller 13), being disposed corresponding to the printing device, receiving a single sheet of paper or a pile of paper sheets for being fed into the printing device by a transmitting wheel (sheet of thermosensible paper 1 and be rapidly fed into the printing portion 15a of the thermal head 15) (col. 3, lines 52-67, col. 4, lines 11).

Fujiwara fails to specifically teach that the printing device of the printable personal digital assistant is disposed in the housing.

Fujiwara does teach that when the PDA 50 is attached to the printing mechanism housing 11, the PDA 50, the printing mechanism portion 20 and the paper accommodating portion 30 can be handled as an integral apparatus having a rectangular shape that is operable as a single unit of printer 10 (col. 3, lines 8-17). Fujiwara also teaches an integral printer wherein the housing 11 accommodates the PDA 50 could also be provided according to the present invention (col. 5, lines 5, lines 65-67).

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Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to the invention of Fujiwara that though he does not specifically teach a printing device as being disposed in the same housing as the PDA, he does teach that an integral printer wherein the housing accommodates the PDA could be provided (col. 5, lines 65-67).

5. Regarding Claim 2, Fujiwara teaches a printer for a portable digital assistant, wherein the paper feed device is a paper feed box (paper accommodation portion 30) engaging with a recess opening located at the lower casing part, and a receiving space in the paper feed device provides a push plate being biased by an elastic element such as a spring or a plate spring (paper pressing member 8a having a leaf-spring for pressing paper) (col. 5, lines 15-34).

6. Regarding Claim 3, Fujiwara teaches a printer for a personal digital assistant, wherein the printing mechanism is a heat induced printer (thermal head 15), and the paper is high sensible to the heat (thermosensible sheet 1) (col. 3, lines 30-40).

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7. <sup>Regarding claim 4,</sup> Fujiwara teaches a printer for a portable digital assistant, wherein the papers are a pile of paper sheets (plurality of thermosensible sheet 1) (col. 3, lines 40-51).

8. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Fujiwara as applied to claim 1 above, and further in view of Elgee (US 6,213,659).

9. Regarding Claim 5, Fujiwara fails to teach a printable personal digital assistant, wherein the printing device at an outlet thereof provides a sensor to detect if the papers are normally operated.

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Elgee teaches a printer device, wherein the printing device at an outlet thereof provides a sensor (sensors 18, 134, 148 and 150) to detect if the papers are normally operated (computing device 40 is configured to utilize the data provided by sensors 118, 134, 148, and 150 to detect error in loading print medium in print device 20) (col. 10, lines 1-5).

Therefore it would have been obvious of one of ordinary skill in the art at the time of the invention to have combined the teachings of Fujiwara with the teaching of Elgee to provide a sensor within the printing device to detect errors in loading the print medium.

### ***Conclusion***

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Petterutti et al. (US 5,997,193) discloses a miniature, portable, interactive printer.

Ando (US 6,742,887) discloses a portable electronic device with a printing mechanism.

Fujiwara (US 2003/0184643) discloses a combination compact printer and display panel.

Silverbrook (US 2005/0012807) discloses a personal digital assistant terminal with an internal printer.

Silverbrook (US 2005/0018243) discloses a personal digital assistant with internal printer and user interface

**Contact Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Satwant K. Singh whose telephone number is (703) 306-3430. The examiner can normally be reached on Monday thru Friday 8am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly A. Williams can be reached on (703) 305-4863. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
sks

Satwant K. Singh  
Examiner  
Art Unit 2626



**KIMBERLY WILLIAMS  
SUPERVISORY PATENT EXAMINER**